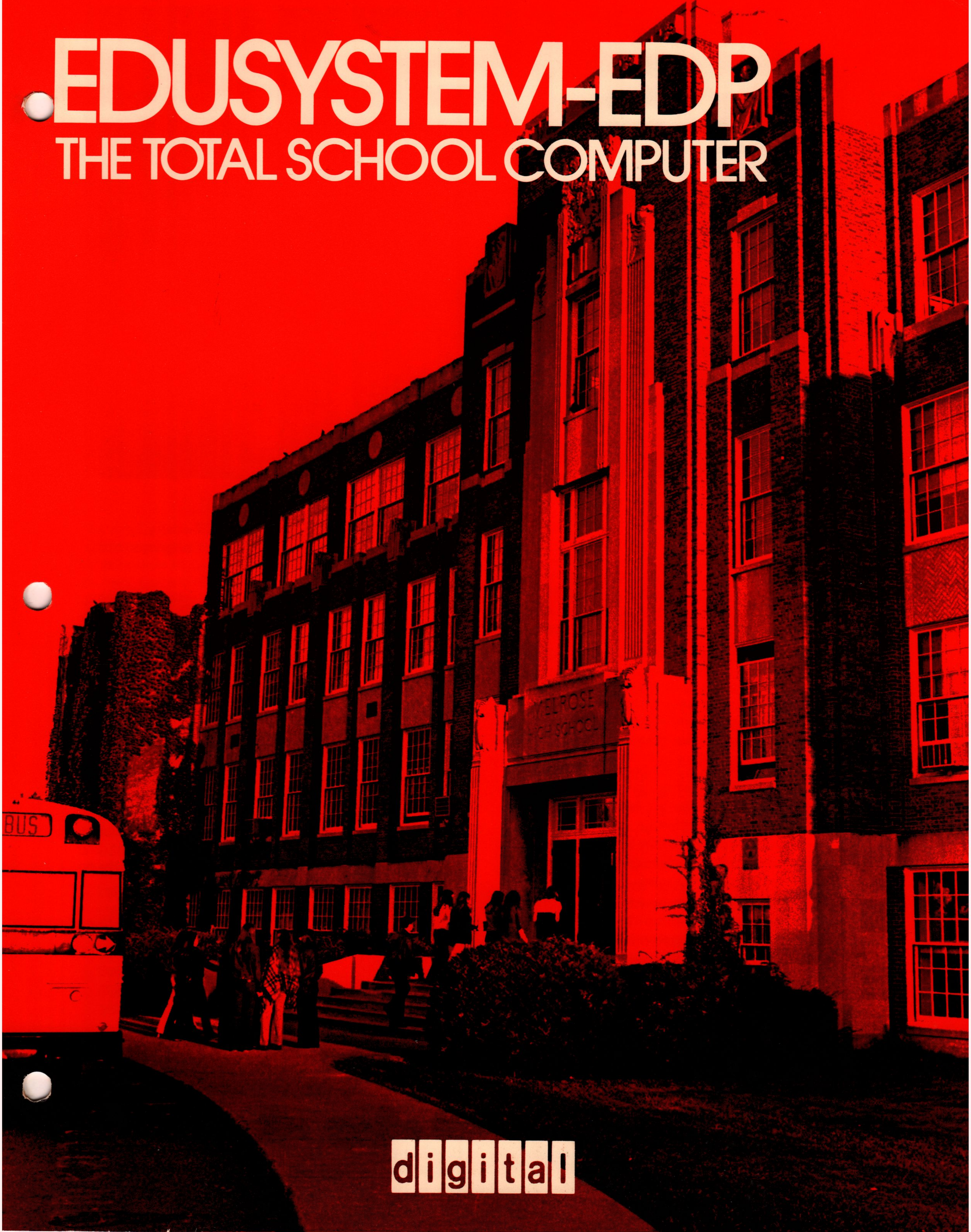
EDUSYSTEM-EDP

THE TOTAL SCHOOL COMPUTER



digital

EDUSYSTEM-EDP

Twenty years ago, the computer was a novelty, both in our society and in our schools. Today it's a reality. Specially designed scientific, industrial, and commercial computer systems have triggered startling advances in research, information handling, and a host of other activities.

However, the introduction of computers into education has been much more gradual than in industry. Schools first began using computer services of neighboring colleges, businesses, and service bureaus to modernize their attendance accounting and grade reporting. Computers subsequently began to assist innovative schools in scheduling and such projects as comprehensive achievement monitoring.

These primarily administrative functions were followed, in the Sixties, by requests for access to computers by teachers in mathematics, science, and business.

The instructional capabilities of the computer have been expanded enormously and brought a new terminology into today's progressive classrooms. CAI, CMI, CAS, COM, and CAPS are all acronyms for computer assisted, managed, or oriented teaching techniques.

Prior to today, the separate functions of administration and instruction have placed teachers and administrators in a dilemma. Which use of the computer is more important? Should a school acquire a data processing computer system or an instructional computer system? Each did its primary function well and the other poorly, or not at all. Until today.

Today there is EduSystem-EDP, the one school computer system which has all the instructional power of Digital's highly successful EduSystems and the administrative programs for Educational Data Processing.

ADMINISTRATION

Schools do not make a profit. Schools educate children. Schools, however, like businesses manage vast resources of money, personnel and property. A school data processing system should assist in this management process, produce timely reports, and relieve teachers of their clerical, non-professional chores. Digital's new Educational Data Processing system is an extension to its proven instructional capabilities on low-cost computers. Not only are the administrative programs provided at a lower cost than with usual commercial computer systems, but the *same* system provides outstanding instructional opportunities for classroom use.

EduSystem-EDP consists of an operating system and application programs to accomplish the administrative tasks of student, teacher, room, course, and section file creation, maintenance and display, and the student accounting functions of grade reporting, attendance accounting and student scheduling.

With EduSystem-EDP each user specifies his particular requirements to the computer and the programs are tailored to that user's specific parameters. A user has great flexibility in defining not only the data items stored in his files but also their size and characteristics. Each user selects from a list of processing options such as daily or monthly attendance procedures and alphabetic or numeric grade reporting and also defines the content and format of desired output reports to EduSystem-EDP.

OPERATING SYSTEM

The operating system includes:

- DIBOL (Digital's Business Oriented Language) editor and compiler.
- Run time monitor.
- SORT utility for reordering and merging of files.
- PIP (Peripheral Interchange Program) utility for transferring data from one storage device to another.

DIBOL is a powerful yet easily learned COBOL-like language on a small computer. The operating system promotes easy, efficient operation of EDP software, and with DIBOL, allows the business teacher to bring the excitement of the world of data processing to his students.

STUDENT RECORDS SYSTEM

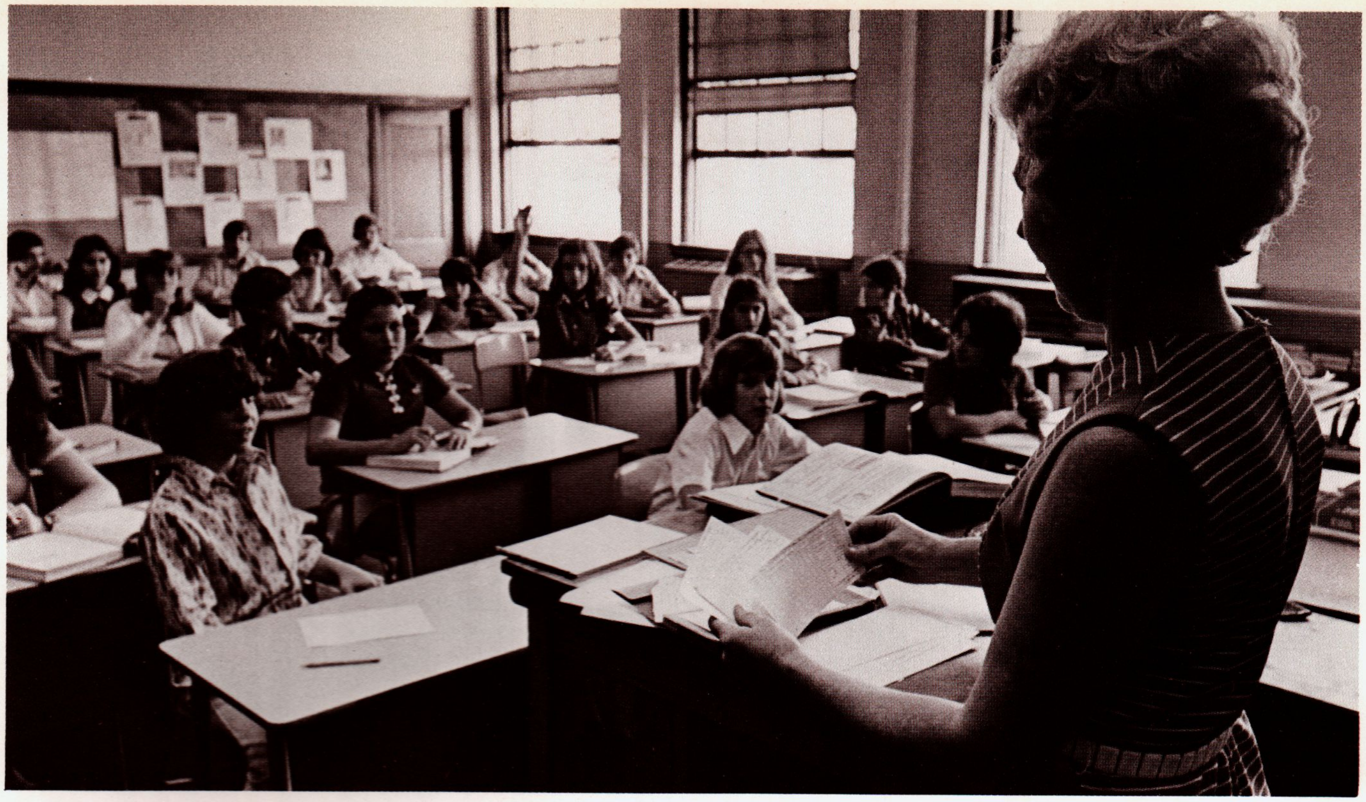
EduSystem-EDP provides facilities for easily recording, updating, and reporting student data. The user-defined Student Record System interfaces with the Attendance Accounting, Grade Reporting and Student Scheduling subsystems to maintain current and cumulative data on each student in membership.

Program capabilities include:

- Create a Master Student Record File of user-defined data elements.
- Enroll new students.
- Delete dropped or transferred students.
- Update student data items.
- Retrieve and display individual student records.
- List students on selected data elements.

Other files required by EduSystem-EDP are a Course File, Section File, Teacher File, and Room File. The same capabilities for creating, updating, retrieving, and reporting exist for these four additional EduSystem-EDP files as with the Student Record Master File. Similarly the data elements in the Teacher, Course, Section and Room Files are user-defined.

COPYRIGHT © 1972 DIGITAL EQUIPMENT CORPORATION



STUDENT SCHEDULING

The EduSystem-EDP Student Scheduling program processes student course requests against a school's master schedule of course offerings to produce a schedule for each student as well as diagnostic reports and scheduling analyses for administrators. Included in the package are two aids to master schedule construction, a tally program and a cross-tally program.

Options available with the student scheduling subsystem:

- Pupil course request verification listing.
- Pupil course request update and audit trails.
- Aids to master schedule construction—Tally and cross-tally reports.
- Course, Teacher, and Room Catalogs.
- Master schedule directory by course number, room number, (room utilization) or teacher number.
- Up to 24 modules per school day.
- Up to 10 days per cycle.
- Up to 5 semesters per school year.
- Up to 4095 courses in the master schedule.
- Up to 99 sections per course.
- Up to 25 course requests per student.
- Split week and split semester course scheduling.
- Class size balancing.
- Study hall assignment.
- Optional partial scheduling for students with irresolvable conflicts.
- Diagnostic information for students who cannot be scheduled without conflict.
- Student schedules.
- Updated master schedule including daily study hall seat counts.
- Class lists, homeroom lists, and daily study hall lists.

ATTENDANCE ACCOUNTING

Attendance Accounting programs provide for the collection of attendance data for each student for each day of the school year. The data is stored in the student's master record where it is accessed for various user-defined attendance reports such as legally required periodic attendance registers and summaries to claim state aid funds.

The EDP-Attendance subsystem is based on mark-sense cards. These turnaround cards facilitate the recording of attendance and data and minimize reporting errors.

Attendance accounting software capabilities include:

- Retention of full or half-day attendance data, including optional tardy, dismissal data for a full school year.
- Daily school absence lists.
- Daily or monthly attendance reporting.
- Support for state aid claims.
- Reporting attendance data on student grade reports.
- Prints report cards for an unlimited number of marking periods in the school year and updates the Student Master File with the current grades.
- Optionally totals course credits and updates the career-to-date credit total.
- Optionally computes current, year-to-date and career-to-date grade point averages.

GRADE REPORTING

EduSystem-EDP offers a comprehensive, easily used Grade Reporting subsystem. The use of turnaround cards increases the speed and accuracy of grade recording and eliminates the need for clerically transcribing the data. Student grades are reported on mark-sense cards by the teacher and sent to the computer for processing.

The EDP Grade Reporting System:

- Produces verification lists of marks before report card preparation.
- Handles customer-designated grading conventions e.g. numeric, alphabetic, alphabetic with plus and minus marks.
- Formats report cards in accordance with user specifications, including any data in the Student, Teacher, Room, Course, or Section Files.

INSTRUCTION

The same system which meets a school's administrative data processing requirements also supports instructional timesharing such as EduSystem-25 or a batch instructional capability such as EduSystem-30. EduSystem-25 services up to eight teleprinter terminals simultaneously and offers on-line program and file storage on DECtape. EduSystem-30 Batch Basic allows students to mark their programs on specially formatted cards which are then processed in a batch by the computer.

SUPPORT AND TRAINING

The installation of an EduSystem-EDP system entitles a school to three weeks of training for its computer resource center manager in either Maynard, Massachusetts, or Palo Alto, California. In addition to the standard Digital software and field service support at installation, EduSystem-EDP includes one full week of on-site support and training by a DEC educational specialist. This unique in-the-school support assures comprehensive consultation services for administrators and instructional training for participating teachers.

GROWTH AND EXPANSION

EduSystem-EDP is an open door. Faster peripherals may be added to the system as the computer-based school administrative programs expand. More core storage and more terminals may be added to increase classroom instructional opportunities in the school.

A low price to meet today's budget and the expansion capability to meet tomorrow's needs—that's EduSystem-EDP.

EDUSYSTEM-EDP CONFIGURATIONS

Description	Purchase	Lease	Maint.
EduSystem/40-EDP PDP8/E rack mountable computer with 12K words of core memory, power restart, bootstrap, two dual DECtape transports and controller, optical mark card reader, console teletype, line printer, EduSystem/40-EDP software, literature kit and support and training.	$50,820	$1,118	$321
EduSystem/45-EDP PDP8/E rack mountable computer with 12K words of core memory, power restart, bootstrap, cartridge disk, DECtape, optical mark card reader, console teletype, line printer, EduSystem/45-EDP software, literature kit and support and training.	49,570	1,091	345
EduSystem/50-EDP PDP8/E rack mountable computer with 12K words of core memory, power restart, bootstrap, disk unit and control, optical mark card reader, high-speed tape reader and DECwriter, line printer EuSystem/50-EDP software (including special package price for Timesharing software), literature kit and support and training.	68,950	1,517	406

digital

DIGITAL EQUIPMENT CORPORATION, Maynard, Massachusetts, Telephone: (617) 897-5111 • ARIZONA, Phoenix • CALIFORNIA, Anaheim, Los Angeles, Oakland, Palo Alto, San Diego and San Francisco • COLORADO, Denver • CONNECTICUT, Meriden • DISTRICT OF COLUMBIA, Washington (Riverdale, Md.) • FLORIDA, Orlando • GEORGIA, Atlanta • ILLINOIS, Chicago • INDIANA, Indianapolis • LOUISIANA, New Orleans • MASSACHUSETTS, Cambridge and Waltham • MICHIGAN, Ann Arbor • MINNESOTA, Minneapolis • MISSOURI, St. Louis • NEW JERSEY, Parsippany and Princeton • NEW MEXICO, Albuquerque • NEW YORK, Centereach (L.I.), New York City, (Englewood, N.J.), and Rochester • NORTH CAROLINA, Durham/Chapel Hill • OHIO, Cleveland and Dayton • OREGON, Portland • PENNSYLVANIA, Philadelphia and Pittsburgh • TENNESSEE, Knoxville • TEXAS, Dallas and Houston • UTAH, Salt Lake City • WASHINGTON, Seattle • WISCONSIN, Milwaukee • ARGENTINA, Buenos Aires • AUSTRALIA, Adelaide, Brisbane, Melbourne, Perth and Sydney • BELGIUM, Brussels • CANADA, Edmonton, Alberta; Vancouver, British Columbia; Carleton Place, Ottawa and Toronto, Ontario; and Montreal, Quebec • CHILE, Santiago • FRANCE, Grenoble and Paris • GERMANY, Cologne, Hannover, Frankfurt and Munich • ITALY, Milan • JAPAN, Tokyo • NETHERLANDS, The Hague • NORWAY, Oslo • PHILIPPINES, Manila • SPAIN, Barcelona and Madrid • SWEDEN, Stockholm • SWITZERLAND, Geneva and Zurich • UNITED KINGDOM, Birmingham, Edinburgh, London, Manchester and Reading • VENEZUELA, Caracas

PRINTED IN U.S.A. 8701X 11072 2491/M 14 10